Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

1. (Previously Presented) In a remote data mirroring arrangement of data storage systems, a method of operating a data storage system comprises:

determining that storage traffic is to be transferred between the data storage system and a remote data storage system to which the data storage system is coupled by an IP network in accordance with a remote data service application;

using an interface between the remote data service application and a TCP/IP protocols software layer to form a connection to the IP network, wherein the interface is split across two processors, with a first interface portion residing on a first processor and a second interface portion residing on a second processor; and

enabling transfer of the storage traffic between the data storage system and the remote data storage system over the IP network using the connection to the IP network.

2. (Original) The method of claim 1, wherein the IP network is the Internet.

3. (Original) The method of claim 1, wherein the IP network is a private network.

4. (Previously Presented) The method of claim 1, wherein the interface comprises a socket interface to interface an operation of the remote data service application to the TCP/IP protocols software layer.

5. (Previously Presented) The method of claim 4, wherein the connection comprises TCP/IP over Gigabit Ethernet.

6. (Cancelled)

7. (Currently Amended) The method of claim ~~6~~1, wherein the first interface portion and the remote data service application conform to a common interface.

8. (Currently Amended) The method of claim 4, wherein enabling further comprises using the socket interface to create a socket from which the ~~native~~ connection to the IP network is formed.

9. (Previously Presented) A computer program product residing on a computer-readable medium for operating a data storage system in a remote data mirroring arrangement of data storage systems, the computer program product comprising instructions causing a computer to:

determine that storage traffic is to be transferred between the data storage system and a remote data storage system to which the data storage system is coupled by an IP network in accordance with a remote data service application;

use an interface between the remote data service application and a TCP/IP protocols software layer to form a connection to the IP network, wherein the interface is split across two processors, with a first interface portion residing on a first processor and a second interface portion residing on a second processor; and

enable transfer of the storage traffic between the data storage system and the remote data storage system over the IP network using the connection to the IP network.

10. (Previously Presented) A data storage system for use in a remote data mirroring arrangement of data storage systems comprising:

one or more storage devices;

a controller coupled to the one or more storage devices; and

wherein the controller is configured to determine that storage traffic is to be transferred between the data storage system and a remote data storage system to which the data storage system is coupled by an IP network in accordance with a remote data service application, use an interface between the remote data service application and a TCP/IP protocols software layer to form a connection to the IP network, and enable transfer of the storage traffic between the data storage system and the remote data storage system over the IP network using the connection to the IP network, wherein the interface is split across two processors, with a first interface portion residing on a first processor and a second interface portion residing on a second processor.